AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

PGOSS-P002	2	Serial No. 09/738,01
10. (Cancelled).		
9. (Cancelled).		
8. (Cancelled).		
7. (Cancelled).		
6. (Cancelled).		
5. (Cancelled).		
4. (Cancelled).		
3. (Cancelled).		
2. (Cancelled).		
1. (Cancelled).		

Examiner: Philpott, J.

Art Unit: 2665

11. (Cancelled).		
12. (Cancelled).		
13. (Cancelled).		
14. (Cancelled).		
15. (Cancelled).		
16. (Cancelled).		
17. (Cancelled).		
18. (Cancelled).		
19. (Cancelled).		
20. (Cancelled).		
21. (Cancelled).		

PGOSS-P002 Examiner: Philpott, J.

22. (Cancelled).				
23. (Cancelled).				
24. (Cancelled).				
25. (Cancelled).				
26. (Cancelled).				
27. (Cancelled).				
28. (Cancelled).				
29. (Cancelled).				
30. (Cancelled).				
31. (Previously Presented)	A time sensitive quality of service management system			
comprising:				
a communication port	for communicating information;			
a switching circuit for providing an output communication path to said				
communication port and performing unscheduled cut through routing of a communication				

PGOSS-P002 Examiner: Philpott, J. path probe, wherein said probe is discarded if said unscheduled cut through routing is not performed directly, said switching circuit coupled to said communication port;

a processor for directing said switching circuit to perform unscheduled cut through routing of a communication path probe and a communication path probe update, including discarding said communication path probe and associated information if said unscheduled cut through routing of said probe is not performed directly, said processor coupled to said switching circuit; and

a memory for storing information associated with the control of said switching circuit by said processor, said memory coupled to said processor.

32. (Original) A time sensitive quality of service management system of Claim 31 wherein said processor analyzes incoming information and determines if the incoming information has time sensitive characteristics.

33. (Previously Presented) A time sensitive quality of service management system of Claim 32 wherein said processor directs said time sensitive quality of service management system to drop said incoming information with time sensitive characteristics if said switching circuit can not output said information within specified timing constraints according to said time sensitive characteristics.

34. (Original) A time sensitive quality of service management system of Claim 32 wherein said processor directs said time sensitive quality of service management system

PGOSS-P002 Examiner: Philpott, J.

to drop said incoming information with time sensitive characteristics if said switching

circuit is busy performing other switching operations.

35. (Original) A time sensitive quality of service management system of Claim 32

wherein said processor directs said switch to add identification information to said

communication path probe and forward said communication path probe by cut-through

routing upon receipt and analysis of destination information in said communication

probe.

36. (Previously Presented) A time sensitive quality of service management system of

Claim 32 wherein said processor directs said switch to forward said communication path

probe update upon receipt and analysis of source information in said communication

probe update.

37. (Original) A time sensitive quality of service management system of Claim 32

wherein said communication path probe update includes information utilized to establish

a communication path from a source to a destination.

38. (Previously Presented) A time sensitive quality of service management system of

Claim 32 wherein said communication path probe is broadcast to communicatively

coupled neighboring intermediate network devices.

PGOSS-P002 Examiner: Philpott, J. Serial No. 09/738,010 Art Unit: 2665

6

39. (Original) A time sensit	tive quality of service manager	ment system of Claim 32
wherein the information is c	considered urgent if it is address	ssed to a port associated with a
time sensitive device.		
40. (Cancelled).		
41. (Cancelled).		
40.40 H. N		
42. (Cancelled).		
43. (Cancelled).		
44. (Cancelled).		
45. (Cancelled).		
A6 (Cancelled)		
46. (Cancelled).		
47. (Cancelled).		
48. (Cancelled).		
49.(Cancelled).		
PGOSS-P002	7	Serial No. 09/738,010

- 50. (Cancelled).
- 51. (Cancelled).
- 52. (Cancelled).
- 53. (Cancelled).
- 54. (Cancelled).
- 55. (Currently Amended) A network management system comprising:

a communication port for communicating information;

a switching circuit for providing an output communication path to said communication port and performing unscheduled pre-emptive cut through routing of information, wherein said information is discarded if said unscheduled cut through routing is not performed directly, said switching circuit coupled to said communication port; said switching circuit coupled to said communication port;

a processor for directing said switching circuit to perform unscheduled preemptive cut through routing of a communication path probe utilized to establish a communication path for communicating non-time sensitive information, wherein said information is dropped if said unscheduled pre-emptive cut through routing is not performed directly, said processor coupled to said switching circuit; and

PGOSS-P002 Examiner: Philpott, J.

a memory for storing information associated with the control of said switching

circuit by said processor, said memory coupled to said processor.

56. (Previously Presented) The network management system of Claim 55 wherein said

processor directs said switching circuit in the performance of a time sensitive quality of

service management method comprising:

receiving information by an intermediate network device;

determining transmission timing constraints of said intermediate network device;

sending the information to downstream devices by the intermediate network

device via unscheduled pre-emptive cut through routing only, if the intermediate device

is available for sending information to downstream devices within specified timing

constraints;

analyzing the timing constraints of the information by the intermediate network

device; and

dropping the information if the intermediate device is not available for sending to

downstream devices within specified timing constraints directly via said unscheduled cut

through routing.

57. (Previously Presented) The network management system of Claim 55 wherein

dropped information is resent from an originating device.

PGOSS-P002

Examiner: Philpott, J.

Serial No. 09/738,010 Art Unit: 2665

9

- 58. (Previously Presented) The network management system of Claim 55 wherein a packet of information is switched to the down stream channels as soon the header indicating the timing constraints of the information is received and analyzed.
- 59. (Previously Presented) The network management system of Claim 55 wherein the information is considered urgent if it is addressed to a port associated with a real time device.

PGOSS-P002 Examiner: Philpott, J.